

## PROJECT DESCRIPTION

## EQUIPMENT LIST (CONT.)

## I. GENERAL

This project involves the modification of an existing Traffic Control Signal with street lighting and interconnect at the intersection of MD 197 and Muirkirk Road in Prince George's County. MD 197 is assumed to run in a north-south direction.

## II. INTERSECTION OPERATION

- The intersection shall continue to operate in a NEMA six-phase, fully-actuated mode, with the MD 197 approaches continuing to run concurrently. Exclusive/Permissive left turn phases for both approaches of MD 197 shall remain in operation. A pedestrian phase with pushbutton actuation shall remain in operation across the south leg of MD 197. For side sampling stations across the south leg of MD 197 shall continue to operate at this intersection. The Muirkirk Road / Shopping Center Driveway approaches shall continue operating in a split phase mode.
- The existing full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall remain in operation at this intersection.

## III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.
- Prince George's County is responsible for the pavement markings along Muirkirk Road. The contractor must notify Mr. Mike Rohlf of Prince George's County D.P.W. at (301) 499-8592 at least two weeks prior to completing the project.

## EQUIPMENT LIST

## A. EQUIPMENT TO BE SUPPLIED BY S.H.A.

ITEM NO.	DESCRIPTION	QUANTITY
9016	Detector amplifier 4-channel rack mount (To be installed into the existing cabinet by S.H.A. Forces).	1 EA
9570	Sheet aluminum signs to consist of: (ground mount)	35 SF
	M6-2 "arrow (symbolic)" left diagonal sign, (15" x 21"), with hardware.	1 EA
	M6-2 "arrow (symbolic)" right diagonal sign, (15" x 21"), with hardware.	1 EA
	R3-8(7) MOD "LEFT TURN ONLY, LEFT TURN AND THRU, RIGHT TURN ONLY" sign, (48" x 30") with hardware.	2 EA
	W11-2 "PEDESTRIAN CROSSING (SYMBOLIC)" sign, (30" x 30") with hardware.	2 EA
9571	Sheet aluminum signs to consist of: (mast arm or pole mount)	37 SF
	GUIDE SHIELD ASSEMBLY (48"x75") pole mounted.	1 EA
	M3-2 "NORTH" (30"x15")	
	M1-5 "MD 197" (48"x36")	
	M6-1 "left arrow" (30"x24")	1 EA
9572	Sheet aluminum signs to consist of: (span wire mount)	15 SF
	R3-5L "LEFT TURN ONLY" sign, (30" x 36") span wire mounted.	1 EA
	R3-6 "LEFT TURN AND THRU" sign, (30" x 36") span wire mounted.	1 EA

## A. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	1 EA
2001	Class 2 Excavation.	1 C.Y.
2002	Test Pit Excavation	1 C.Y.

## A. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
5004	12" white heat applied permanent preformed thermoplastic pavement marking.	540 L.F.
5005	24" white heat applied permanent preformed thermoplastic pavement marking.	25 L.F.
5008	Remove existing pavement markings - any width.	450 L.F.
6001	Furnish and install depressed curb and gutter.	30 L.F.
6002	Standard type A combination curb and gutter 12" gutter pan 8" depth.	40 L.F.
6004	4" concrete sidewalk.	180 S.F.
8010	Furnish and install 12" pedestrian signal head section	2 EA
8029	Furnish and install microloop probe set with 500' lead-in	2 EA
8030	Furnish and install breakaway pedestal pole (10').	1 EA
8032	Pedestrian pushbutton and R10-4(1) sign. (Note: Sign to read "PUSHBUTTON TO CROSS LAUREL-BOWIE RD".)	1 EA
8051	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - trench	15 L.F.
8059	Furnish and install concrete for signal foundation.	1 C.Y.
8060	Furnish and install wood sign supports 4" x 4".	90 L.F.
8062	Furnish and install No. 6 AWG stranded bare copper ground wire.	20 L.F.
8068	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - slotted	40 L.F.
8070	Furnish and install 1" liquid tight flexible non-metallic conduit for detector sleeve.	25 L.F.
8074	Furnish and install electrical handhole.	1 EA
8076	Install ground mounted sign.	43 S.F.
8077	Install overhead sign.	37 S.F.
8082	Furnish and install ground rod - 1/2" x 10'.	1 EA
8083	Furnish and install electrical cable - 2 conductor (aluminum shielded) (No. 14 AWG)	1060 L.F.
8084	Furnish and install electrical cable - 2 conductor (No. 14 AWG).	270 L.F.
8085	Furnish and install electrical cable - 3 conductor (No. 14 AWG).	270 L.F.
8089	Furnish and install loop wire encased in flexible tubing (No. 14 AWG).	955 L.F.
8090	Furnish and install saw cut for signal (loop detector).	360 L.F.
Neg.	Remove pedestrian signal head, pushbutton and pedestrian education sign.	1 EA
Neg.	Relocate existing span mounted signal head.	3 EA
Neg.	Remove ground mounted sign.	1 EA
Neg.	Realign pedestrian signal head.	1 EA
Neg.	Relocate ground mounted sign onto new wood post.	1 EA

## C. EQUIPMENT TO BE REMOVED

All removed signal materials are to become property of the contractor.

The contact persons for District #3 (Prince George's County) are as follows:

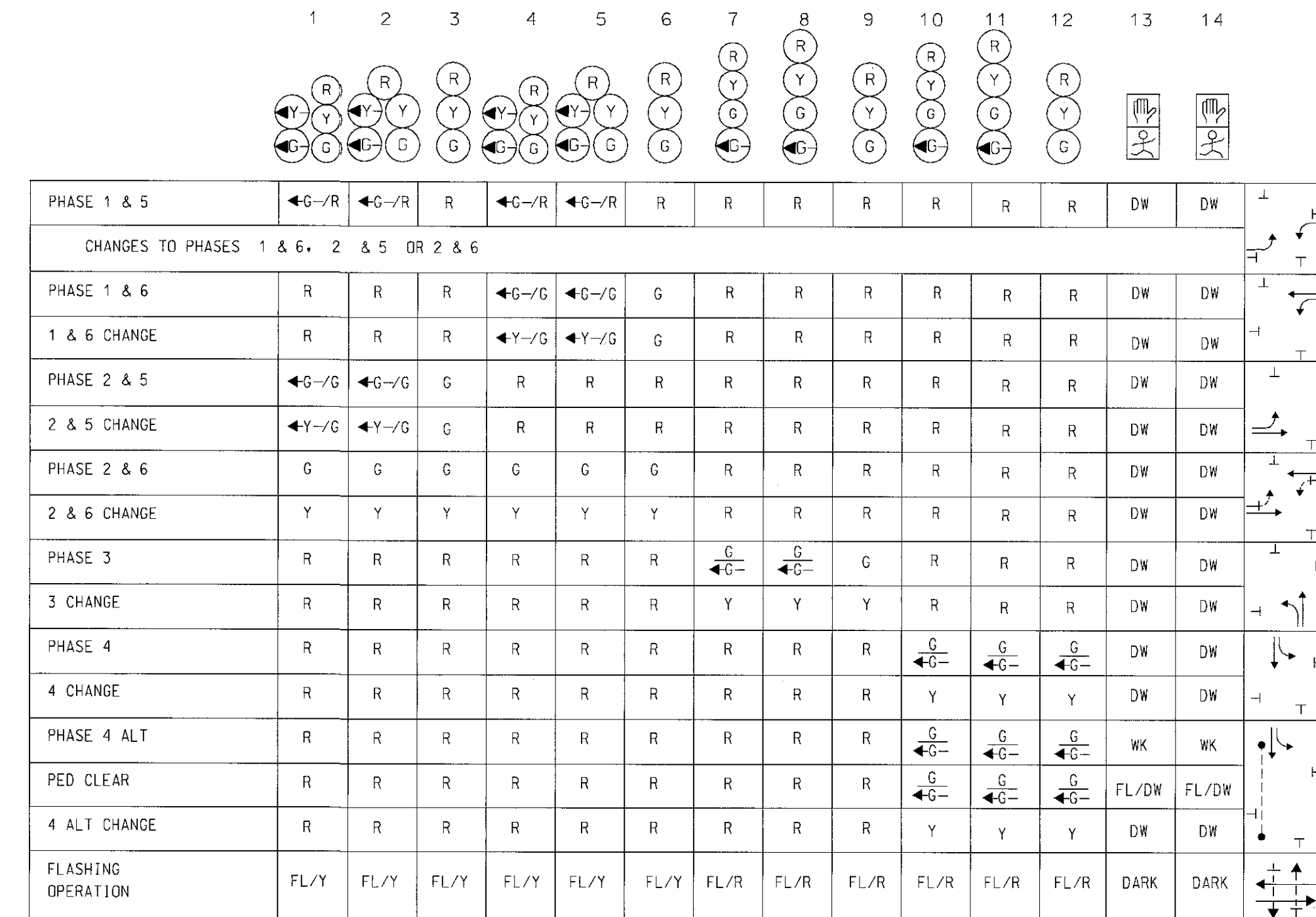
Mr. Majid Shakib  
Assistant District Engineer - Traffic  
Phone: (301) 513-7358

Mr. Raleigh Medley  
Assistant District Engineer - Maintenance  
Phone: (301) 513-7304

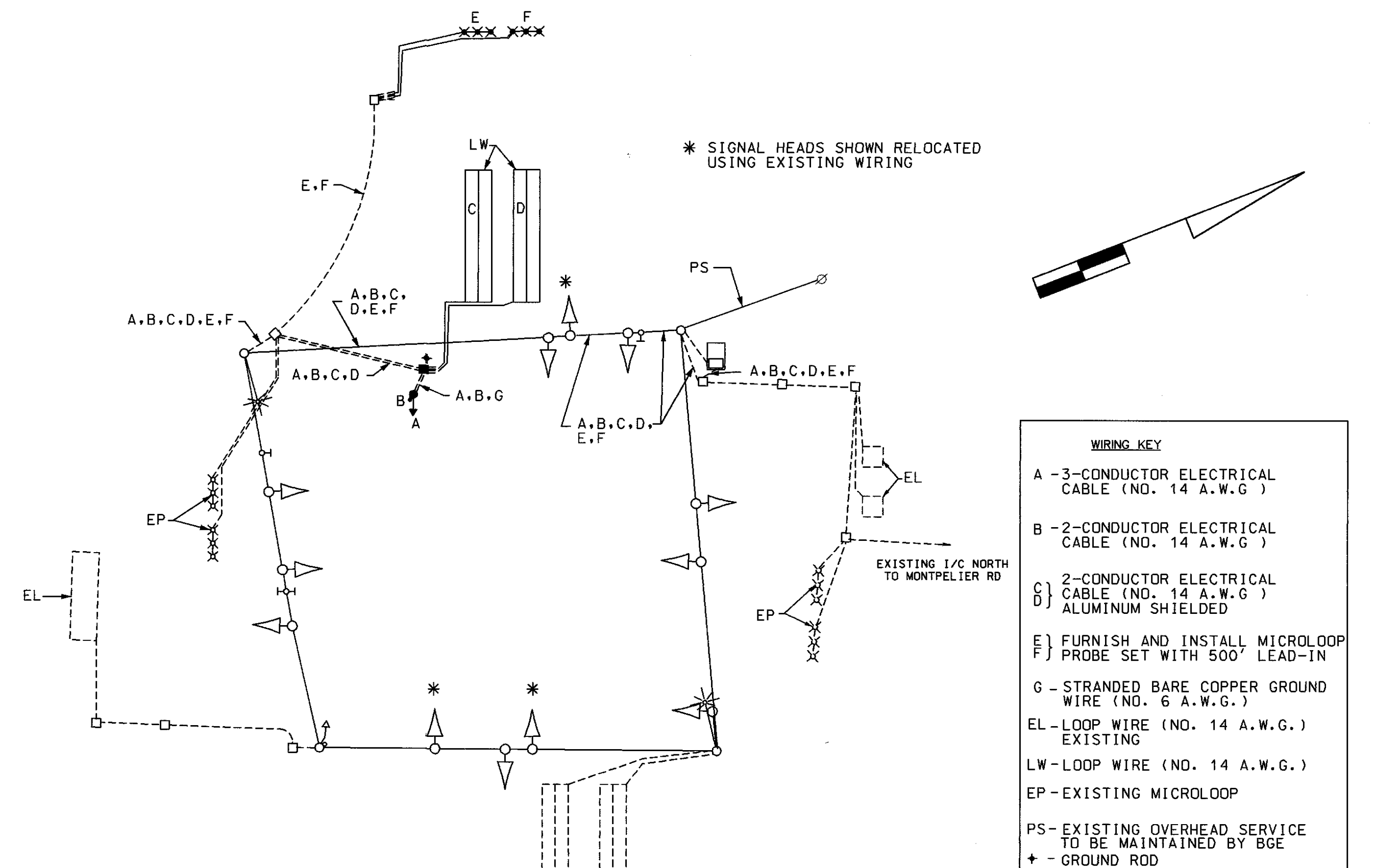
Mr. Augie Rebish  
Assistant District Engineer - Utility  
Phone: (301) 513-7350

Mr. Richard L. Doff, Sr.  
Chief, Traffic Operations Division  
Phone: (410) 787-7630

## PHASING DIAGRAM



## WIRING DIAGRAM



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 197 AND MUIRKIRK ROAD

DRAWN BY: ROB CICCHINI	F.A.P. NO. 07434452	TS NO. 902 E	SHEET NO. 3 OF 3
CHECKED BY: R ZACHERL	S.H.A. NO. PRINCE GEORGE'S	T.I.M.S. NO.	
SCALE: NONE	COUNTY: PRINCE GEORGE'S	LOG MILE: 16019712.28	
DATE: 11-13-02			

